

Product features



- Stand alone type Dimmable adjustable output power LED driver
- Flicker-free LED driver
- Supports DALI-2, push dimming
- Output current 400...750 mA
- Max. output power 30 W
- Constant lumen output (CLO)
- For luminaires of protection class I, II
- 5 years warranty



Product specifications

160730 ID CCCI 30/230/400-750 DALI FV1

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor @ full load	Dimension L x W x H (mm)
400...550 mA	220...240 Vac 220...240 Vdc	2.5-52 Vdc	86%	± 5%	≥ 0.9	160 x 43 x 21
600 mA		2.5-50 Vdc	86%			
650 mA		2.5-46 Vdc	87%			
700 mA		2.5-42 Vdc	87%			
750 mA		2.5-40 Vdc	88%			

Electrical specifications

Mains voltage supply

Rated input voltage range	220...240 Vac; performance range
Max. input voltage range	198...264 Vac; operational safety range
Rated frequency range	0/50/60 Hz
Max. input current	0.17 A @ 230 Vac

Battery operation

DC voltage range	220...240 Vdc
Max. DC voltage range	176...276 Vdc

Protection against voltage peaks

Withstand voltage	I/P-O/P: 3.0 kVac, < 5 mA 60 sec; I/P-DA/P: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 10%
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Output data

Output current tolerance	± 5% at rated input voltage range
No load output voltage	59 Vdc
Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 59V
Overpower protection	The output power is less than or equal to 35 W
Short circuit protection	Yes

Dimming operation and interface

Dimming mode	DALI-2, Push dimming
Dimming method	Amplitude dimming
Dimming current range	1%...100%
Standby power consumption	≤ 0.5W

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Primary side: 0.75...1.5 mm ² ; secondary side: 0.5...1.5 mm ²
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
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Operating data

Output current range	NFC control adjusts the current: 400...750 mA
Default current	400 mA
Output voltage range	2.5...52 Vdc
Noise level	< 20dB, at full load @ 100cm distance

Circuit breaker/inrush current

MCB loading quantity	Inrush current ipeak: 4 A			Inrush current twidth: 25 µs	
	MCB type	B10	C10	B16	C16
	Units	54	54	86	86

Supplementary instructions

- The luminaire manufacturer is responsible for measuring and verifying the EMI compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference.
- For the push DIM function, please follow our instructions, which can be downloaded from www.cupower.com.
- Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed

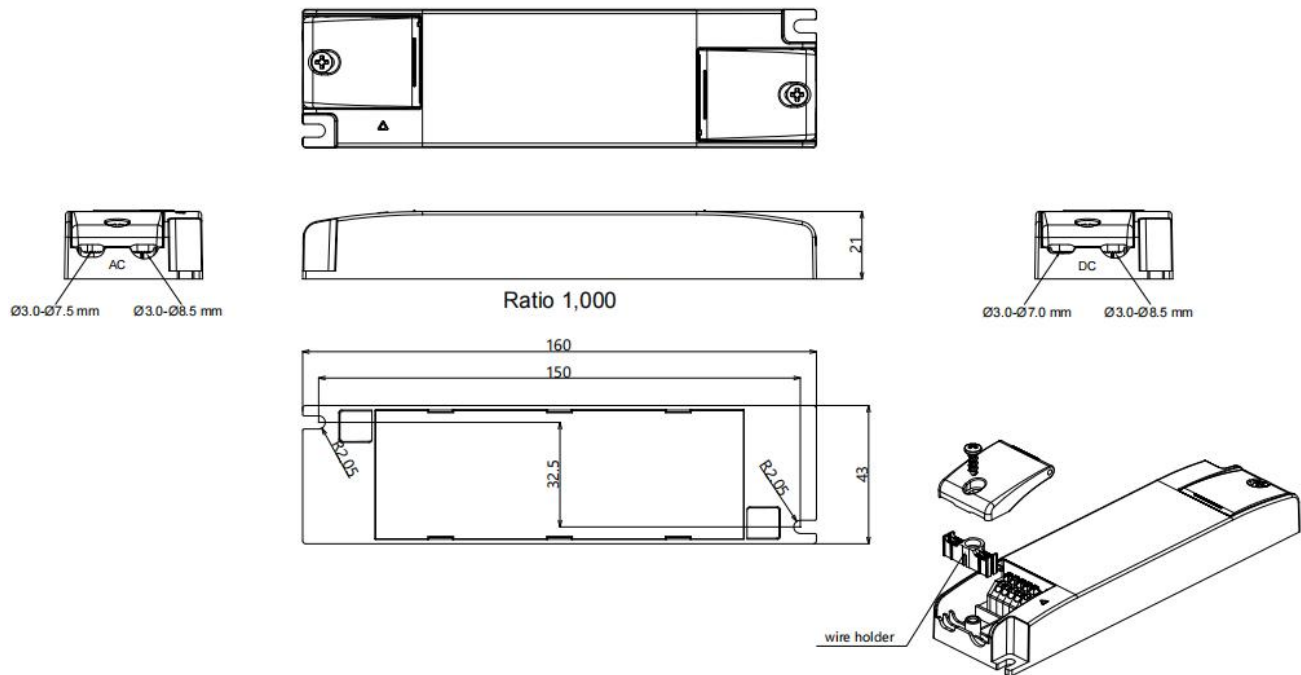
Dimensions

Housing dimensions

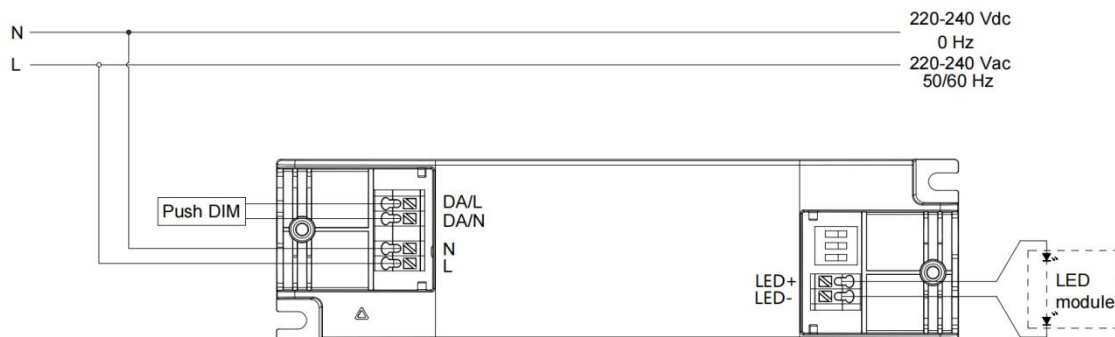
Length (L)	160 mm
Width (W)	43 mm
Height (H)	21 mm
For all dimensions: values in mm; tolerances: ± 0.15 mm	

Packaging details

Packing units	50 pcs
Carton size	335 x 225 x 145 mm
Carton weight	6 kg
Product weight	0.11 kg



Wiring diagram



- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5 - 10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

Adjustable Output Current with dip-switch

Vout	Pout	Iout	1	2	3
2.5-52 Vdc	20.8 W	400 mA	-	-	-
2.5-52 Vdc	23.4 W	450 mA	-	-	ON
2.5-52 Vdc	26.0 W	500 mA	-	ON	-
2.5-52 Vdc	28.6 W	550 mA	-	ON	ON
2.5-50 Vdc	30.0 W	600 mA	ON	-	-
2.5-46 Vdc	29.9 W	650 mA	ON	-	ON
2.5-42 Vdc	29.4 W	700 mA	ON	ON	-
2.5-40 Vdc	30.0 W	750 mA	ON	ON	ON

Technical information

